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Create a function to find, Palindrome, Fibo and Factorials
PROGRAM:
PALINDROME:
# Program to check if a string is palindrome or not
my_str = 'aIbohPhoBiA'
# make it suitable for caseless comparison
my_str = my_str.casefold()
# reverse the string
rev_str = reversed(my_str)
# check if the string is equal to its reverse
if list(my str) == list(rev str):
   print("The string is a palindrome.")
else:
   print("The string is not a palindrome.")
FIBO:
# Program to display the Fibonacci sequence up to n-th term
nterms = int(input("How many terms? "))
# first two terms
n1, n2 = 0, 1
count = 0
# check if the number of terms is valid
if nterms <= 0:
   print("Please enter a positive integer")
# if there is only one term, return n1
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)
# generate fibonacci sequence
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
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nth = n1 + n2
       # update values
       n1 = n2
       n2 = nth
       count += 1
FACT:
# Python program to find the factorial of a number provided by the user.
# change the value for a different result
num = 7
# To take input from the user
#num = int(input("Enter a number: "))
factorial = 1
# check if the number is negative, positive or zero
if num < 0:
   print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
   print("The factorial of 0 is 1")
else:
   for i in range(1,num + 1):
       factorial = factorial*i
   print("The factorial of",num,"is",factorial)
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